

Patent Abstracts of Japan

PUBLICATION NUMBER : 63049228

PUBLICATION DATE : 02-03-88

APPLICATION DATE : 19-08-86

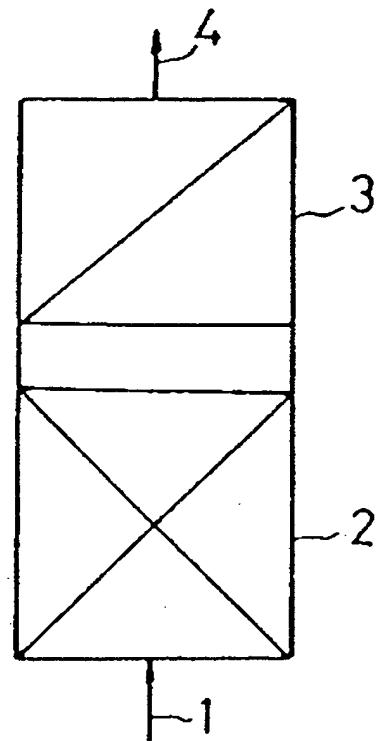
APPLICATION NUMBER : 61192134

APPLICANT : EBARA RES CO LTD;

INVENTOR : FUJII TOSHIAKI;

INT.CL. : B01D 53/34

TITLE : TREATMENT OF WASTE ZONE



ABSTRACT : PURPOSE: To treat even low-concd. waste ozone with high efficiency by bringing an ozone-contg. gas into contact with ion-exchange fiber obtained by depositing an ion-exchange material on natural or artificial fiber.

CONSTITUTION: For example, an electron beam is projected on a carrier of fibrous polypropylene, etc., the carrier is dipped in a soln. contg. hydroxystyrene monomer and isoprene, a graft polymerization reaction is carried out, and after quaternary amination, the obtained anion-exchange resin is fabricated into a nonwoven fabric, etc., to obtain an ion-exchange filter 3. The waste ozone O₃ 1 discharged from the O₃ reactor in a sewage disposal plant and having a relatively high content of O₃ is decomposed to a relatively low content in the bed 2 packed with an ozone decomposing catalyst, then treated with the ion-exchange filter 3, and discharged as a treated gas 4 having an extremely low content of O₃.

COPYRIGHT: (C)1988,JPO&Japio